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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/649,868	08/28/2003	Masahiro Irie	K-2128	6378
32628	7590 12/16/2004		EXAMINER	
HAUPTMAN KANESAKA BERNER PATENT AGENTS SUITE 300, 1700 DIAGONAL RD			LAMBKIN, D	DEBORAH C
ALEXANDRIA, VA 22314-2848		ART UNIT	PAPER NUMBER	
			1626	

DATE MAILED: 12/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	10/649,868	IRIE, MASAHIRO				
Office Action Summary	Examiner	Art Unit				
	Deborah C Lambkin	1626				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 11 Sep	ptember 2003.					
<u> </u>						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)    Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)   Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)   Paper No(s)/Mail Date	4) Interview Summary (F Paper No(s)/Mail Date 5) Notice of Informal Pat 6) Other:					

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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP-2001-49244 (Chem. Abs.134:186014).

This reference teaches a genus of diarylethene-perfluorocyclopentene photochromic compounds which when R2 is alkoxy and A is (substituted) condensed polycyclic aromatic group or a (substituted) polyphenyl group cross embraces the instant genus when A and B are thienyl, R1 is alkoxy and R2 is Q-Ar.

It would have been prima facie obvious to one having ordinary skill in the art at the time the application was filed to choose a species from a prior art genus, motivation being that said species would be expected to possess the same or similar results as their exemplified counterparts, absent some unobvious or unexpected results.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP-2001-48875, JP-2000-321714, JP-2000-256665, JP-2000-256664 and Chem.Abs.

CA121:235806 (Masahiro) in view of JP-2001-49244.

JP-2001-48875, JP-2000-321714, JP-2000-256665, JP-2000-256664 and Chem.Abs. CA121:235806 (Masahiro) all teach diarylethene photochromic compounds which differ from those of the instant application by having an alkyl group instead of an alkoxy group at the 2-position of the heteroaryl ring.

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JP-2001-49244 teach that in essentially the same compounds for the same use,

the 2-position of the A or B ring can be substituted with alkyl or alkoxy.

Consequently, it would have been prima facie obvious to one having ordinary

skill in the art at the time the application was filed to substitute alkyl with alkoxy in

otherwise known diarylethene photochromic compounds, motivation being that alkyl and

alkoxy have been taught to be interchangeable groups and therefore obvious variants.

wherein the resultant compounds would be expected to possess the same or similar

properties, absent some unobvious or unexpected results.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Deborah C. Lambkin whose telephone number 571-272-

0698.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph McKane, can be reached on 571-272-0699.

DEBORAH C. LAMBKIN PRIMARY EXAMINER

Deborah C. Lambkin

**Primary Patent Examiner** 

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